TX-SR803

THX™ Select2™ Certified 7.1-Channel A/V Surround Home Theatre Receiver

ONKYO®
IMAGINATIVE SIGHT & SOUND



Available in Silver or Black



Remote Control

Driving Home Theatre with Pinpoint Accuracy, Potent Power and Multi-Entertainment Options

To create an A/V home theatre receiver of exceptional quality, the challenge lies in incorporating the delicate processing circuits and amplifier components into the same chassis. When they both draw on the same power source, the amplifier dominates at peak moments. In a good design, it all works smoothly—as with the THX Select2 Certified TX-SR803 7.1-channel A/V surround home theatre receiver. You have a wealth of connectivity options, including HDMI (version 1.1) and component video for an effortless, high-bandwidth transfer of video and audio signals to the latest HDTV displays. Also, the inclusion of a TBC (Time Base Corrector) will effectively prevent any picture deterioration caused by timing inaccuracies. With a flood of other features that help the TX-SR803 to stamp its class—Auto Speaker Set-up with Microphone, multizone playback, VLSC (Vector Liner Shaping Circuitry) and 192 kHz/24-bit DACs on all channels, and iPod® playback capabilities—you're looking at a powerful blend of superb design and functionality.

2 HDMI Video/Audio Inputs and 1 Output

With the TX-SR803's HDMI inputs and output, you have the ability to send unparalleled amounts (5 Gbps) of uncompressed digital data, both audio and video, to compatible digital devices through a single cable. Compared to the previous HDMI version 1.0, the TX-SR803's onboard HDMI version 1.1 is capable of handling up to 8 channels of audio with a sampling rate of 192 kHz (24-bit samples) and transmitting uncompressed audio from a DVD-Audio disc.

THX™ Select2™ Certified and THX™ Surround EX™

With THX Select2 certification, the TX-SR803 demonstrates that it has met the rigorous design and performance standards set by THX. For the end user, it enhances the overall system's ability to accurately present movies the way they were mixed by the filmmaker on the dubbing stage and its additional THX listening modes enhance playback performance of music, movies and video games. Furthermore, its ASA (Adaptive Speaker Array) technology optimizes playback of multi-channel movies, music and video games. THX Select2 also includes the THX Surround EX decoder, which enables sound mixers to encircle the audience with 360-degree pans and more realistic fly-over and ambient sound effects.

VLSC (Vector Linear Shaping Circuitry) for All Channels

The TX-SR803 incorporates Onkyo's VLSC (Vector Linear Shaping Circuitry), which employs a unique D/A conversion circuit to mitigate the effect of signal noise. As noise is magnified during the conversion process, even minimal amounts of noise can deteriorate significantly. Data is converted between the sampling points and these discrete sampling points are joined with analog vectors in real-time to produce a smooth output wave form. The result—a noiseless, smooth analog signal based on the digital source.

Auto Speaker Set-up with Microphone

The TX-SR803 uses a high-sensitivity microphone to pick up test tones from your favorite listening spot, and then uses an acoustic analyzer to adjust the sound pressure level and time delay of each channel. Test tones are output by each speaker, detected by the microphone and shown through an onscreen display. This ensures that each channel's delivered synchronously, so you get the most accurate frequency response from your favorite listening spot. Easily calibrated using the TX-SR803's onscreen display and quickly completed in minutes, this function is also useful if you decide to switch rooms, or even move to another home.

Multiroom Playback Capabilities through Powered Zone 2

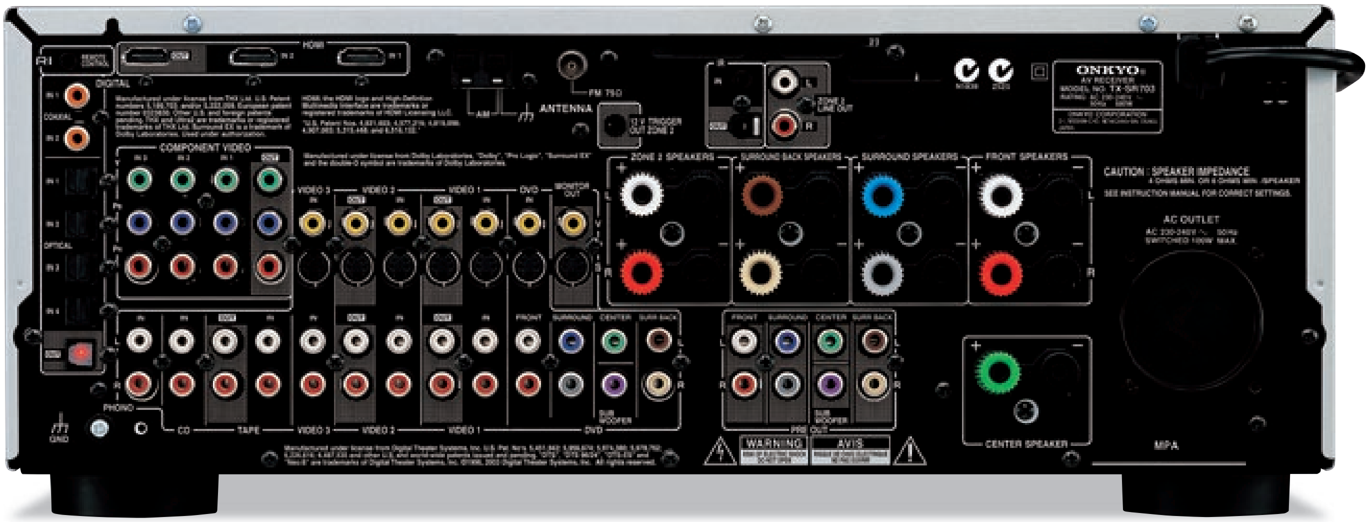
Powered Zone 2 gives you the option of different sources throughout your home. With the Powered Zone 2 function, you can enjoy one input source in the main room and a different source in another room through two different connection methods: using a receiver/integrated amp in Zone 2 or using only a pair of speakers in Zone 2. In the former method, you can enjoy 7.1 surround sound in the main room and play a different AV source in Zone 2 (with the Zone 2 amplifier automatically switched on by a 12 V trigger). With the latter method, you can use 5.1 surround sound in the main room and play a different AV source (stereo) in Zone 2.

Independent Crossover Adjustment for Bass Management

With the TX-SR803's crossover adjustment for bass management, you can independently set the frequency of your front, center, surround and surround back speakers at 40/60/70/80/90/100/120/150/200 Hz. Previously, crossover adjustment was limited to 40/60/80/100/120/150 Hz, so you will find that the TX-SR803 gives you greater scope to match different speakers and subwoofers to your system.

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Amplifier Features

- 105 Watts per channel minimum into 8 ohms, at 20 Hz-20 kHz, FTC
- VLSC (Vector Linear Shaping Circuitry) for all channels
- WRAT (Wide Range Amplifier Technology)
- Extended frequency response (10 Hz to 100 kHz)
- Reduced NFB (Negative Feedback)
- Full bandwidth power to all 7 main channels
- Absolute ground plate
- H.C.P.S—massive high current power supply
- Discrete power amplifier circuitry for all channels
- High-current, low-impedance 6 ohm drive for all channels
- Auto-protection circuitry
- High-grade extruded-aluminum heatsink
- Low Frequency Effect (LFE) level control
- Thick bus bars

Audio/Video Features

- THX™ Select2™ Certified
- THX Surround EX, DTS, DTS 96/24, DTS-ES Discrete/Matrix, DTS Neo:6 decoding
- Dolby Digital, Dolby Digital EX, Dolby Pro Logic IIx decoding
- 192 kHz/24-bit audio DACs for all channels
- Component video upconversion with TBC (Time Base Corrector)
- Composite to S-Video upconversion
- HDTV-capable (100 MHz) component video switching
- Optimum Gain Volume Circuitry
- Digital upsampling
- Non-scaling configuration
- Powered Zone 2 (lineout) with 12 V trigger
- A-form listening mode memory
- Independent crossover adjustment for bass management for F/C/S/SB (40/60/70/80/90/100/120/150/200 Hz)
- Advanced 32-bit processing DSP chip
- 2 HDMI (version 1.1) inputs and 1 output
- 3 component video inputs and 1 output
- 5 S-Video inputs and 3 outputs
- 5 composite video inputs and 3 outputs
- 3 audio inputs and 1 output
- 7 digital inputs (5 optical/2 coaxial) and 1 optical output
- Color-coded 7.1-multichannel inputs and pre outs
- Heavy-duty, color-coded dual banana plug-compatible speaker posts
- Front panel audio, video, S-Video, optical inputs
- Pure audio mode
- Direct mode
- Automatic signal detection
- Dedicated line-level subwoofer pre out
- Late night mode (high/low/off)
- Phono input
- Tone (bass/treble) control for L/R channels

FM/AM Tuner and Other Performance Features

- 40 FM/AM random presets
- Character input (Tuner presets, input selector)
- Outstanding selectivity and sensitivity
- Compatible with RI Dock (DS-A1) for the iPod®
- IntelliVolume
- On-screen display control
- 3-mode display dimmer (bright/normal/low)
- Speaker placement calibration through Auto Speaker Set-up with Microphone
- Absolute volume display
- Double Bass function
- Battery-free memory backup
- Brushed aluminum front panel
- Headphone jack (standard size)
- Heavy-duty power cord
- Individual input selectors for each source
- IR input and output terminals
- Blue illuminated volume control
- Separate PC (printed circuit) boards for audio and video sources
- Sleep timer via remote
- Backlit/Preprogrammed RI (Remote Interactive) learning remote control with 3 macros and mode-key LEDs



Black model

SPECIFICATIONS

Amplifier Section

Power Output
- Front L/R: 105 W + 105 W (8 Ω, 20 Hz-20 kHz, FTC)
- Center: 105 W (8 Ω, 20 Hz-20 kHz, FTC)
- Surround L/R: 105 W + 105 W (8 Ω, 20 Hz-20 kHz, FTC)
- Surround Back L/R: 105 W + 105 W (8 Ω, 20 Hz-20 kHz, FTC)

Dynamic Power: 240 W + 240 W (3 Ω, Front)
180 W + 180 W (4 Ω, Front)
125 W + 125 W (8 Ω, Front)

THD (Total Harmonic Distortion): 0.08 % (Rated Power)

Damping Factor: 60 (Front, 1 kHz, 8 Ω)

Input Sensitivity and Impedance
- Line: 200 mV/47 kΩ
- Phono MM: 2.5 mV/47 kΩ

Output Level and Impedance
- Rec out: 200 mV/470 Ω (Tape, Video 1-2)

Frequency Response: 10 Hz-100 kHz/+ 1 dB, - 3 dB (Line)

Tone Control: ± 10 dB, 50 Hz (BASS)
± 10 dB, 20 kHz (TREBLE)

Signal-to-Noise Ratio: 106 dB (Line in, IHF-A)
80 dB (Phono in, IHF-A)

Speaker Impedance: 4 Ω/6 Ω-16 Ω

Video Section

Input Sensitivity/Output Level and Impedance
- Video: 1.0 Vp-p/75 Ω (Component and S-Video Y)
  0.7 Vp-p/75 Ω (Component PB/CB, PR/CR)
  0.28 Vp-p/75 Ω (S-Video C)
  1.0 Vp-p/75 Ω (Composite)

Component Video Frequency Response: 5 Hz- 100 MHz

Tuner Section

[FM]

Tuning Frequency Range: 87.5 MHz-108.0 MHz

Usable Sensitivity
- Stereo: 22.2 dBf, 2.0 μV (75 Ω IHF)
- Mono: 15.2 dBf, 1.0 μV (75 Ω IHF)

Signal-to-Noise Ratio
- Stereo: 67 dB (IHF-A)
- Mono: 73 dB (IHF-A)

Total Harmonic Distortion
- Stereo: 0.5 % (1 kHz)
- Mono: 0.3 % (1 kHz)

Stereo Separation: 40 dB (1 kHz)

[AM]

Tuning Frequency Range: 522 kHz-1,611 kHz/530 kHz-1,710 kHz

Usable Sensitivity: 300 μV/m

Signal-to-Noise Ratio: 40 dB

Total Harmonic Distortion: 0.7 %

General

Power Supply: AC 230-240 V, 50 Hz

Power Consumption: 680 W

Stand-by Power Consumption: 0.5 W

Dimensions (W x H x D): 435 x 173.5 x 430 mm

Weight: 13.3 kg

NPR No. 05N42 09/05 *Printed in Japan*

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